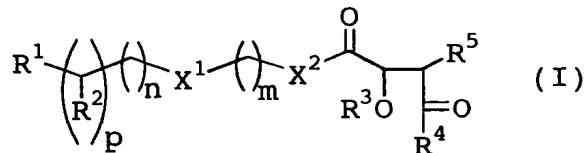
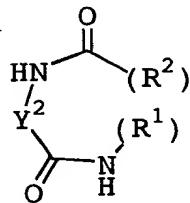


Abstract

The present invention relates to proteasome inhibitors as the active ingredient carboxylic acid derivatives represented by general formula (I) or pharmaceutically acceptable salts thereof:



<wherein m and n are the same or different and represent an integer of 0 to 10; p is 0 or 1; R¹ represents a hydrogen atom, substituted or unsubstituted alkyl, substituted or unsubstituted alicyclic alkyl, or the like; and R² represents a hydrogen atom, COR¹³, or CH₂OR^{3a}, or R¹ and R² together represent the formula:



X¹ represents a bond, substituted or unsubstituted alkylene, substituted or unsubstituted cycloalkylene, or the like; X² represents an oxygen atom, a sulfur atom, or NR¹⁷; R³ has the same significance as the above R^{3a}; R⁴ represents hydroxy, mercapto, substituted or unsubstituted alkoxy, or the like, or R¹ and R² together represent a bond; R⁵ represents a hydrogen

atom, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, or the like.